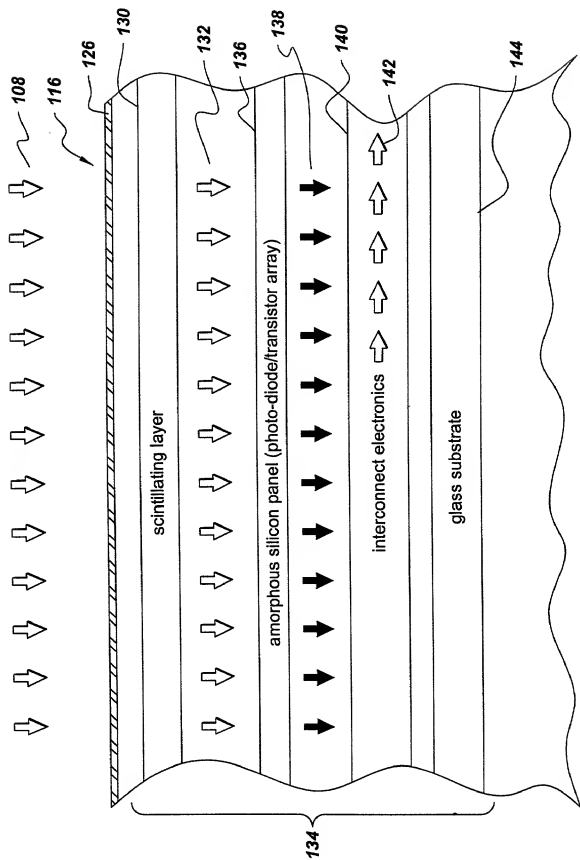


fig. 2
(PRIOR ART)

*fig. 3*

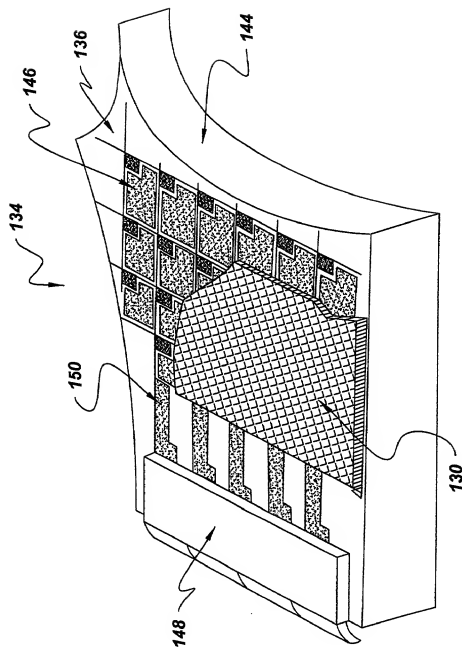


fig. 4
(Prior Art)



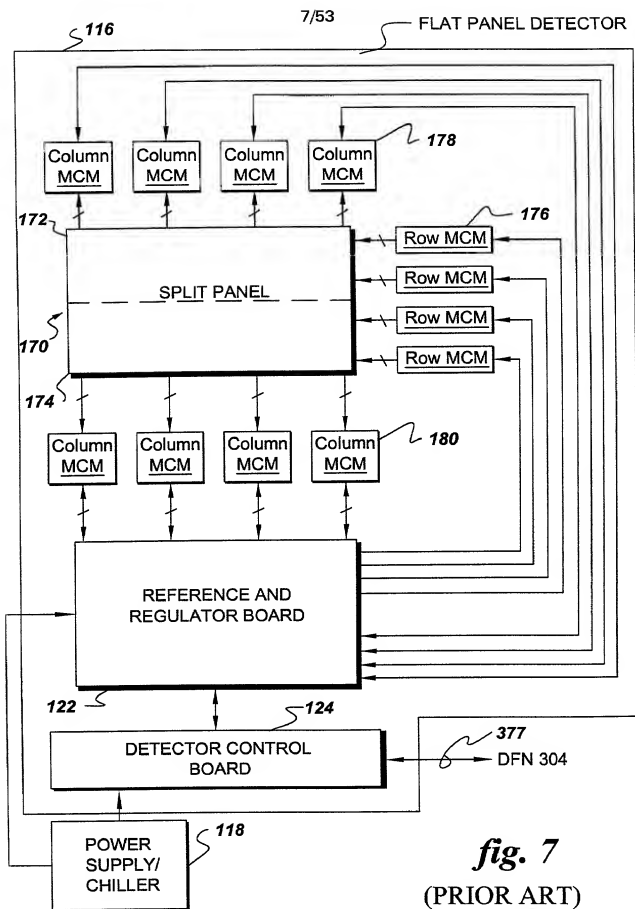
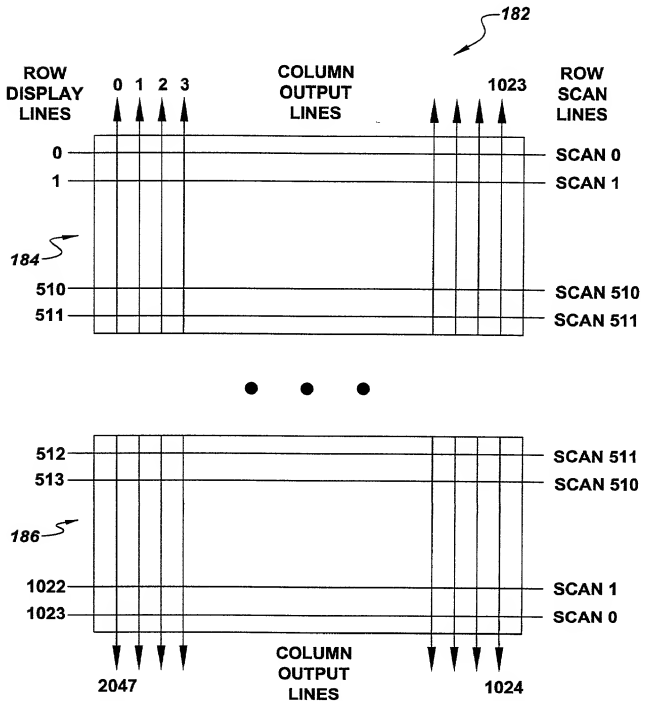


fig. 7
(PRIOR ART)



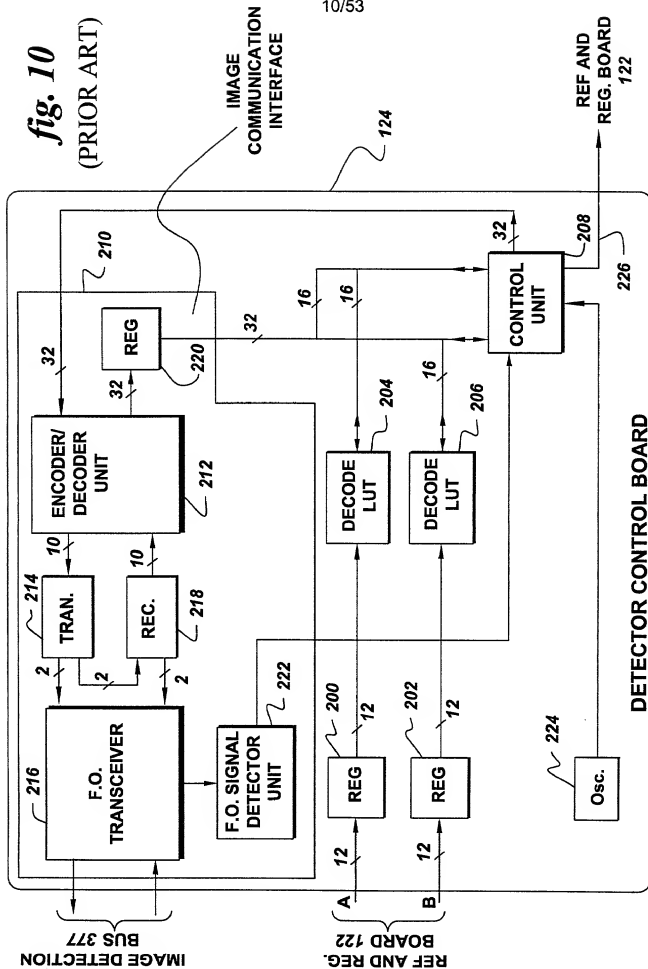
CARDIAC/SURGICAL DIGITAL X-RAY PANEL

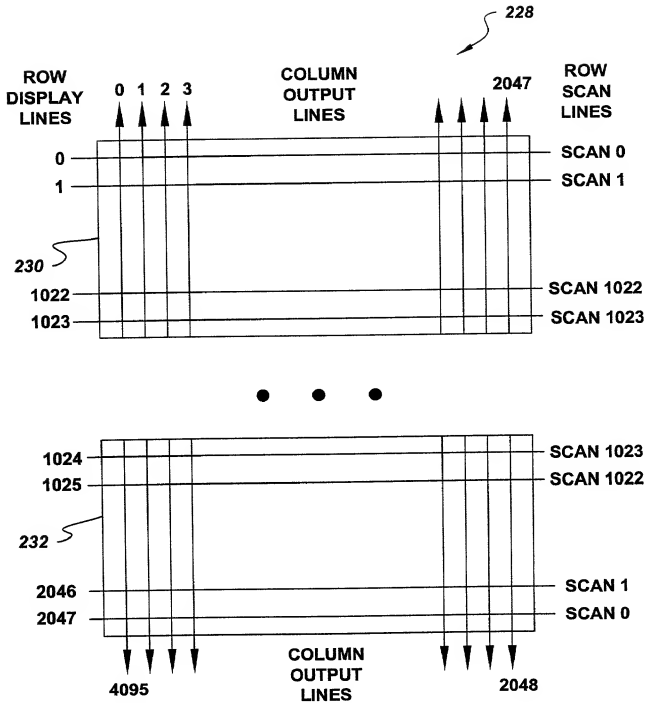
fig. 8
(PRIOR ART)



fig. 9 (PRIOR ART)

IMAGE DETECTION
BUS 377





RADIOGRAPHY DIGITAL X-RAY PANEL

fig. 11 (PRIOR ART)

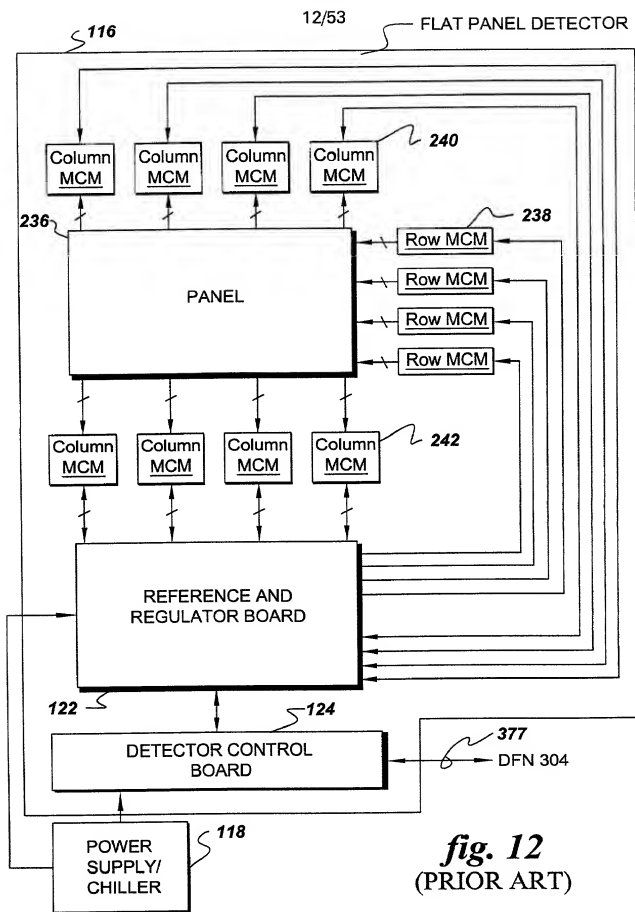
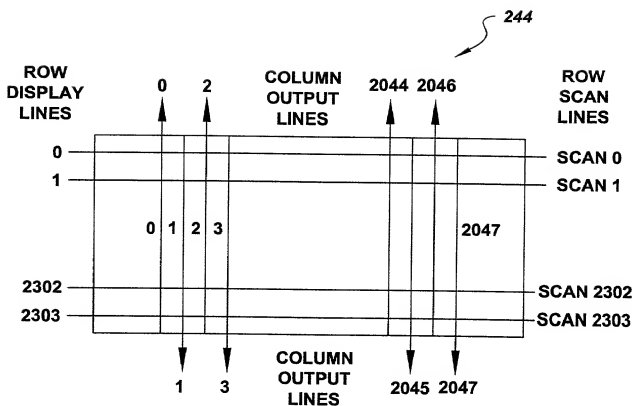


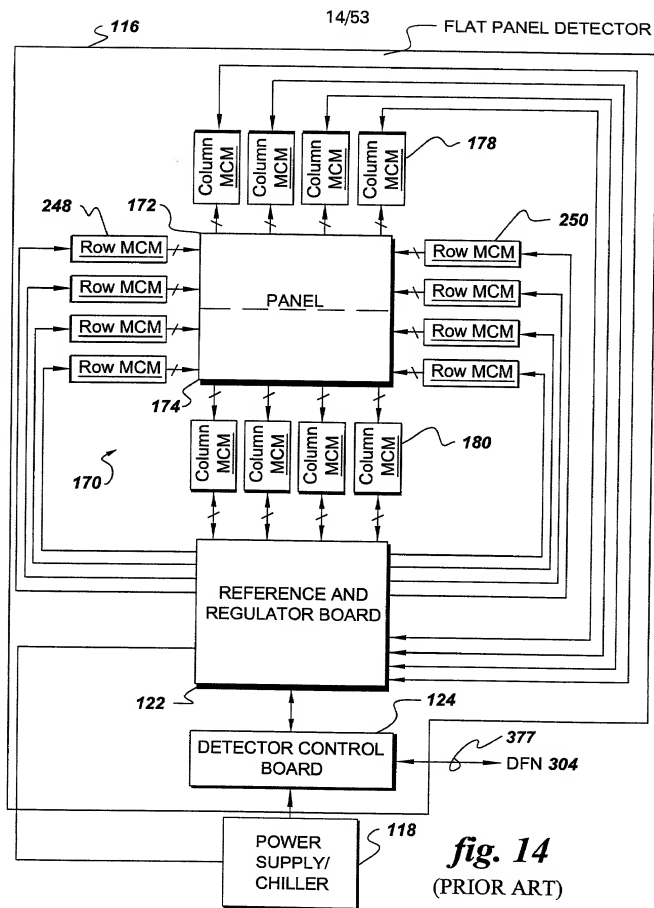
fig. 12
(PRIOR ART)



MAMMOGRAPHY DIGITAL X-RAY PANEL

fig. 13
(PRIOR ART)

TOP SECRET



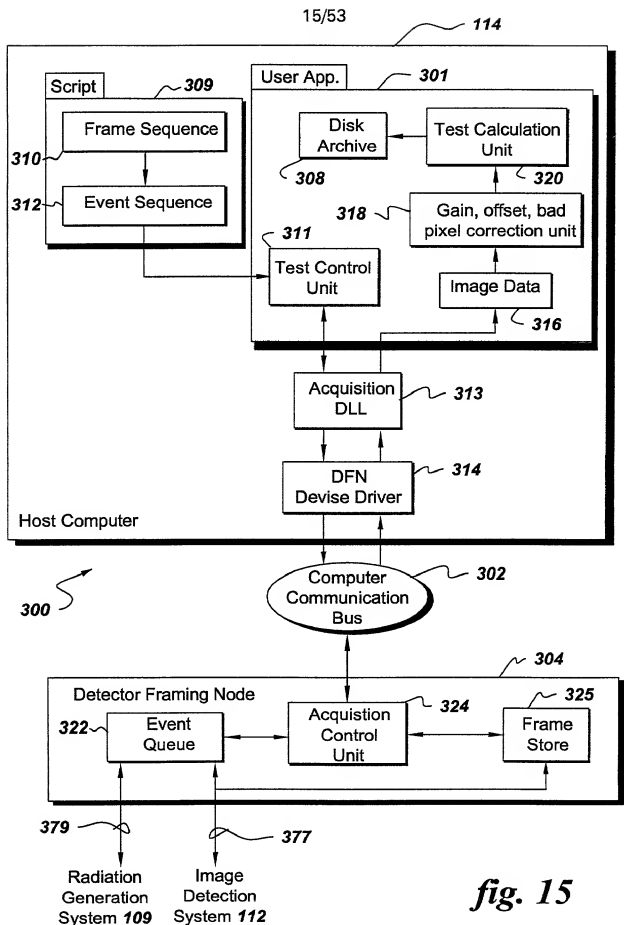


fig. 15

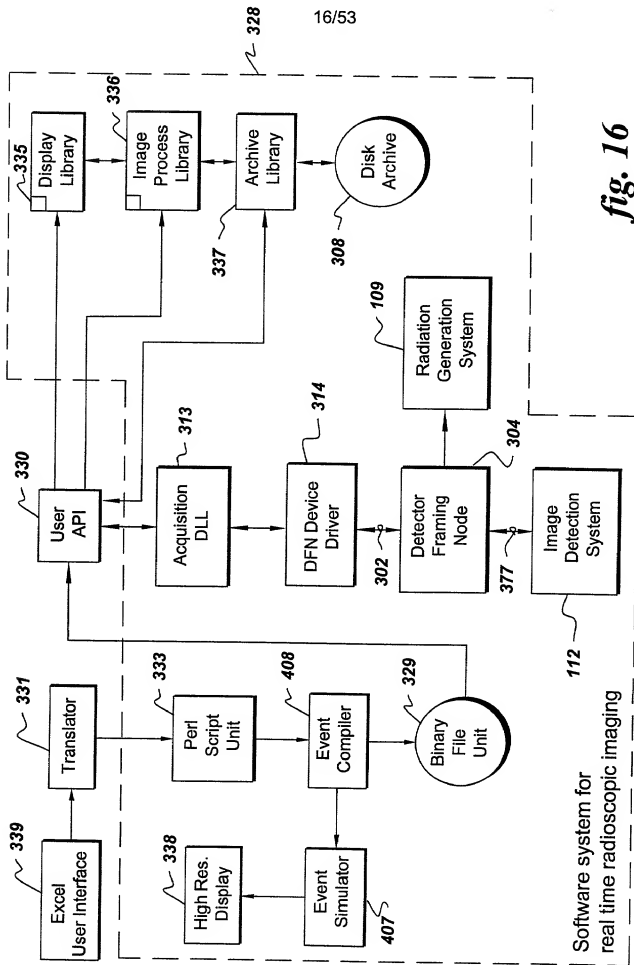
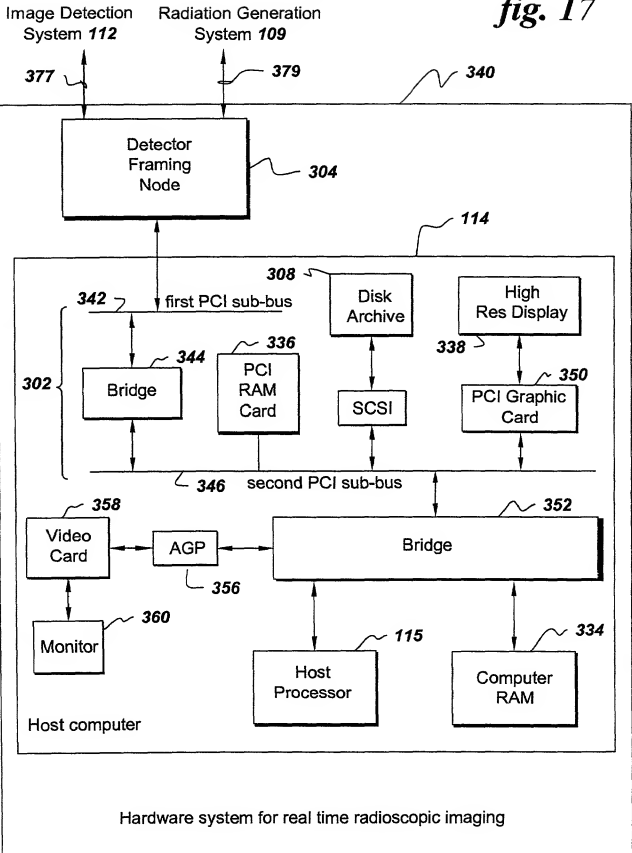


fig. 16

Software system for
real time radioscopic imaging

fig. 17



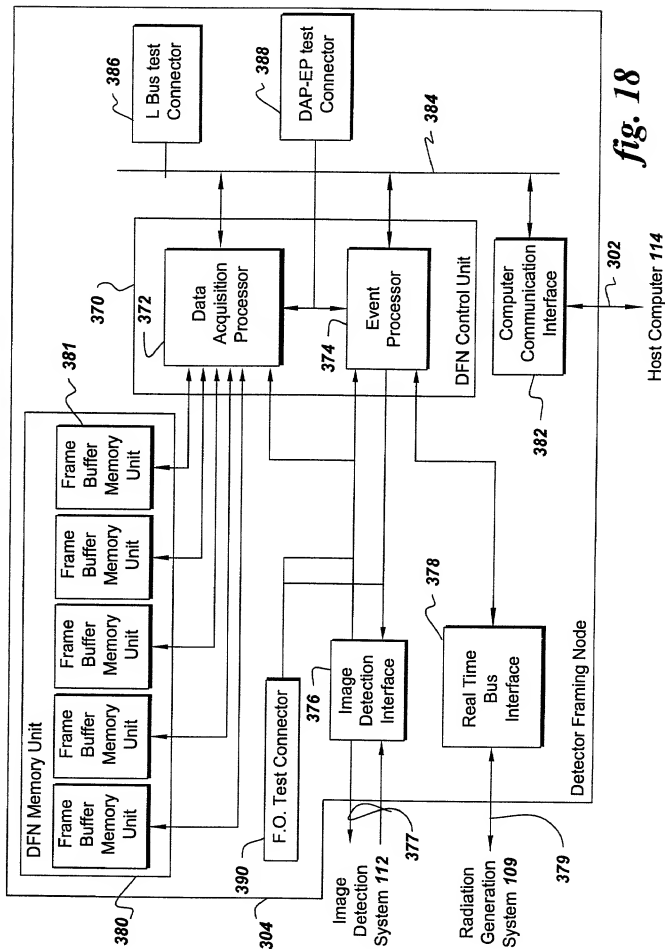


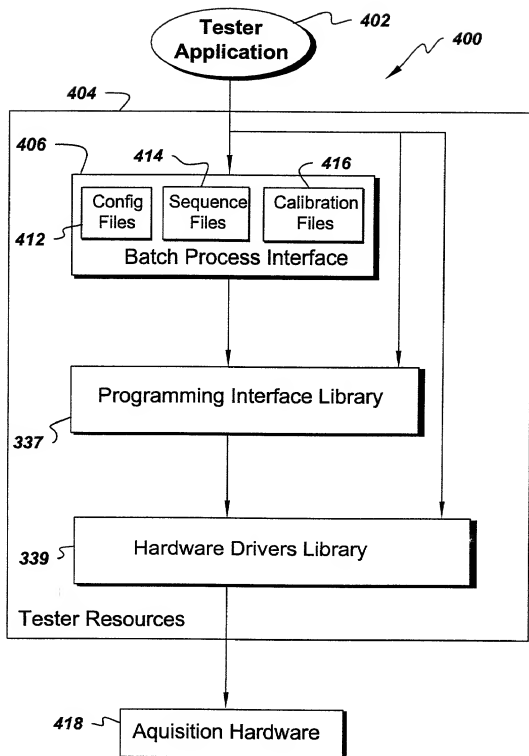
fig. 18

	(fm/sec)	length	latency	memory	offset	gbr
Panel Setup	Real Time	30	unlimited	<5 frames	host	none
Single Frame	Post Process	-	-	Delay ~.1 sec	"	y
Single Frame	Post Process	-	-	Delay ~.2 sec	"	y
Real Time	Real Time	R	unlimited	<5 frames	host	none
Real Time	Real Time	R-X	unlimited	<5 frames	"	y
Real Time	Real Time	R-Y	unlimited	<5 frames	"	y

fig. 19

Modality	Image size	Frames Stored host memory
Cardiac	1024 X 1024	200
Rad	2048 X 2048	50
Mammo	2304 X 2048	44

fig. 20

*fig. 21*

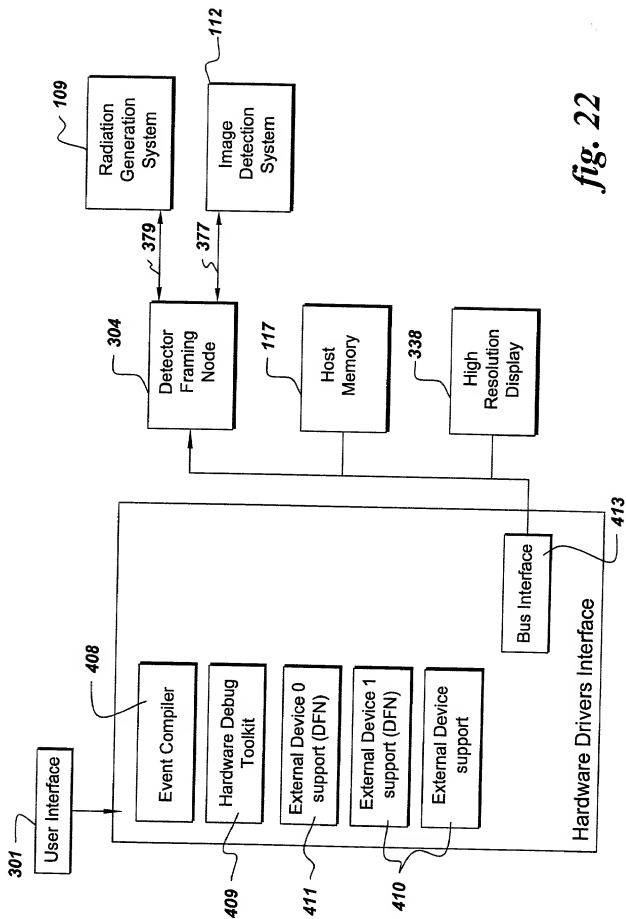


fig. 22

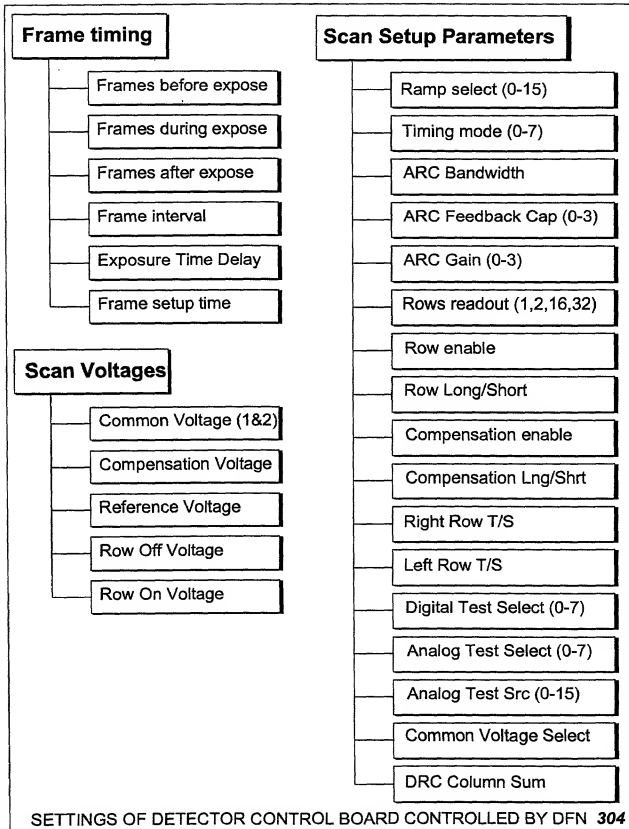
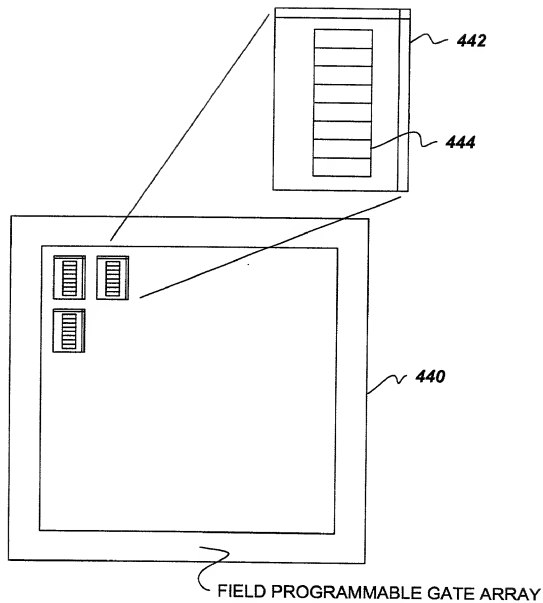


fig. 23

*fig. 24*

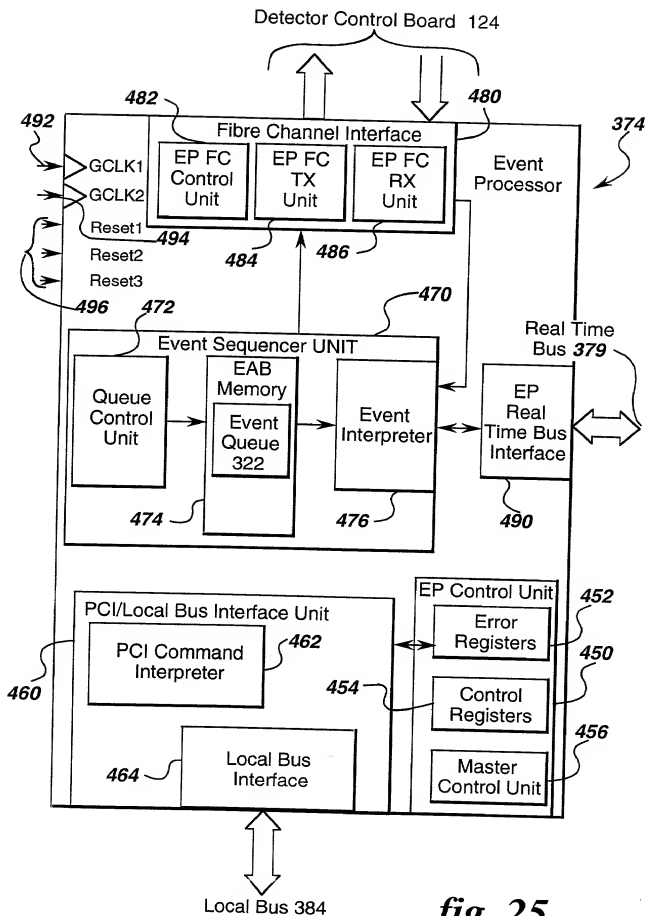


fig. 25

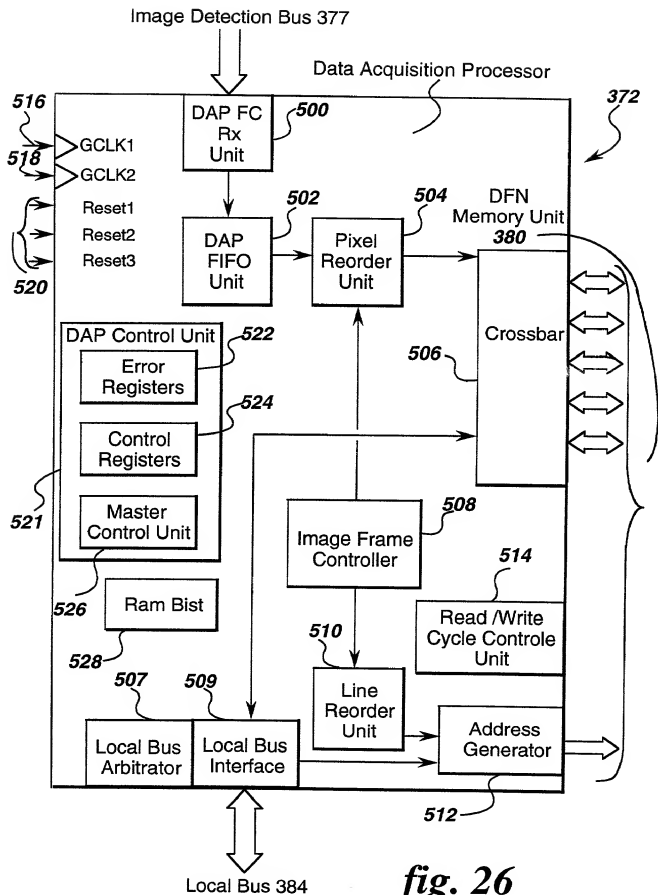
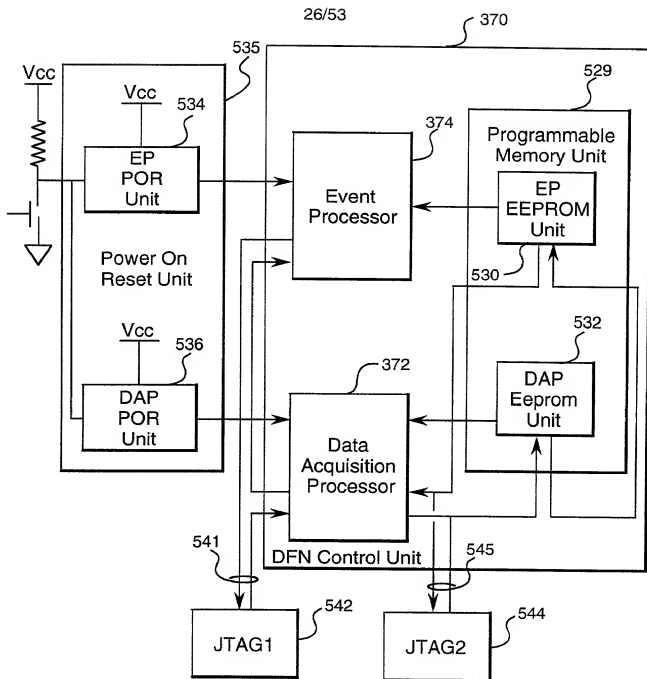


fig. 26



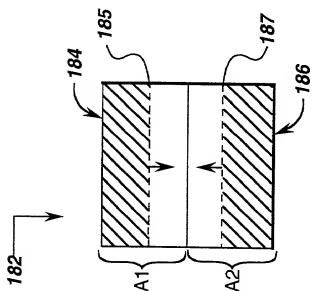


fig. 28

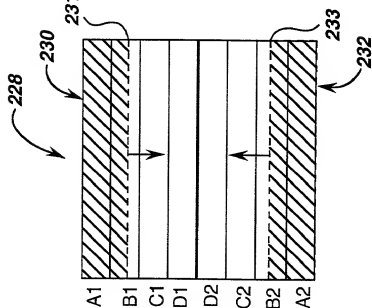


fig. 29

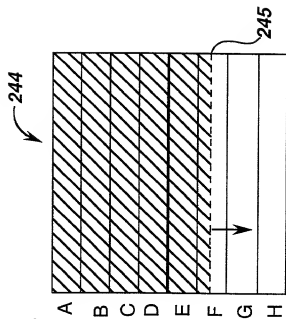
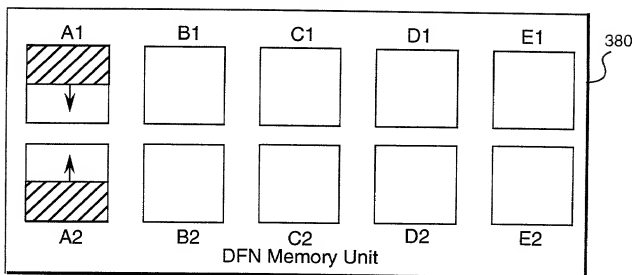
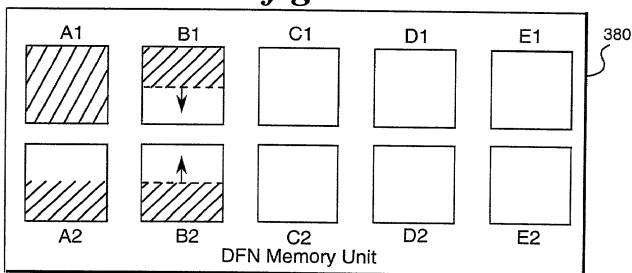
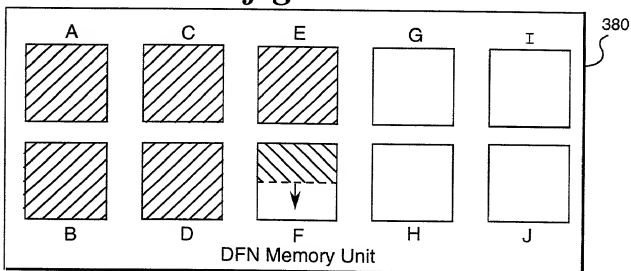


fig. 30

*fig. 31**fig. 32**fig. 33*

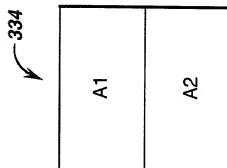


fig. 34

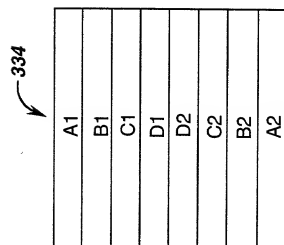


fig. 35

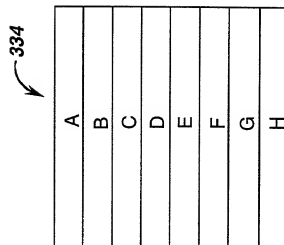
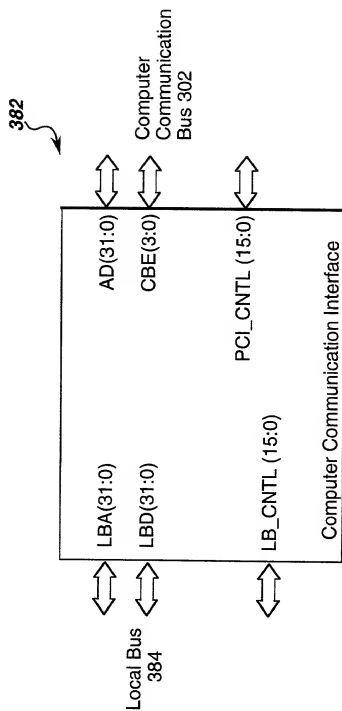


fig. 36

*fig. 37*

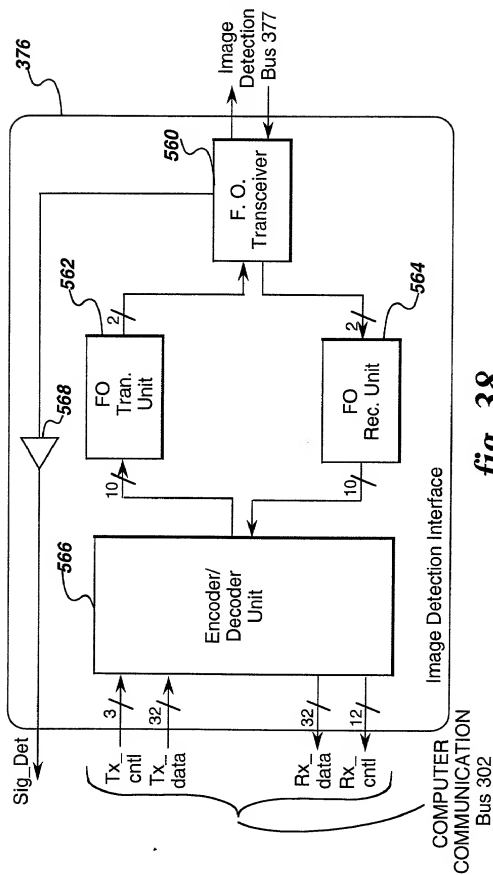


fig. 38

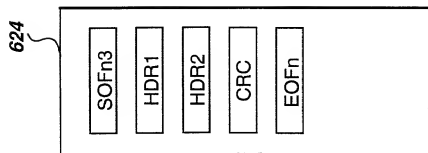


fig. 41

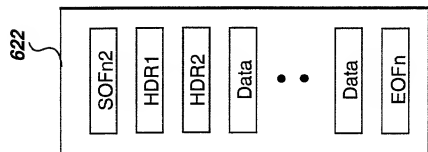


fig. 40

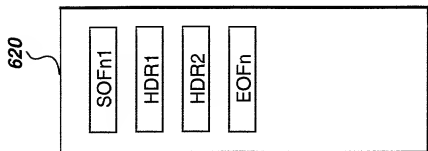
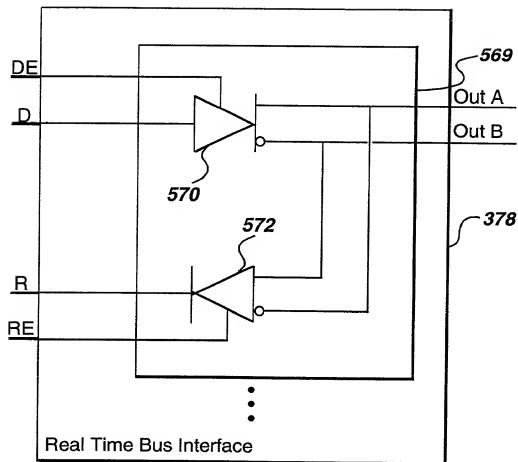
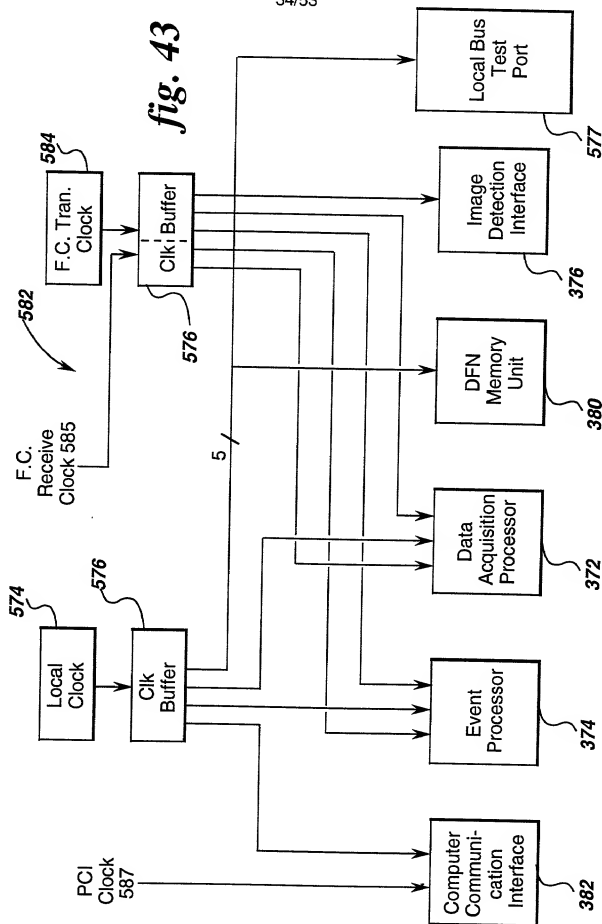
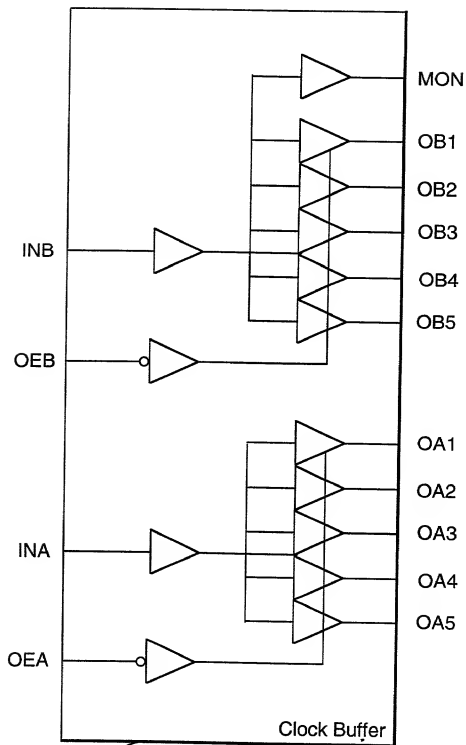


fig. 39

*fig. 42*





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fig. 44

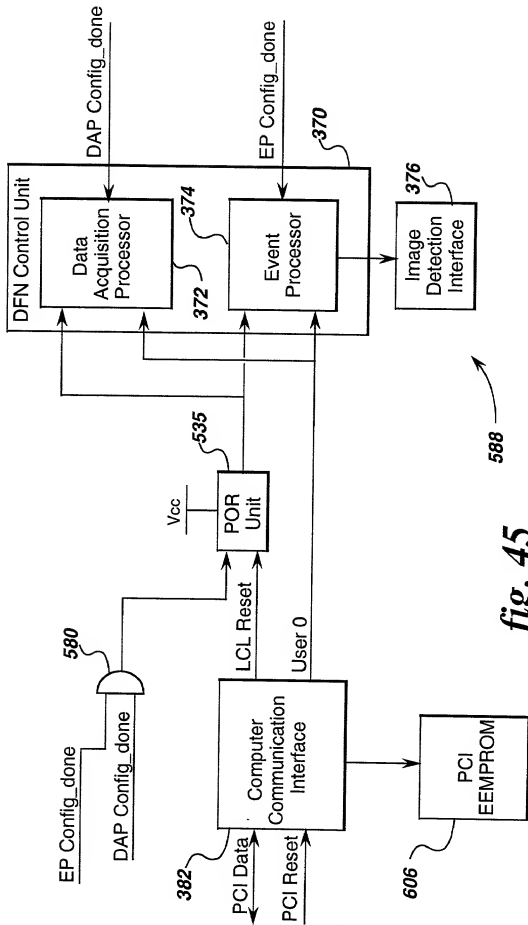
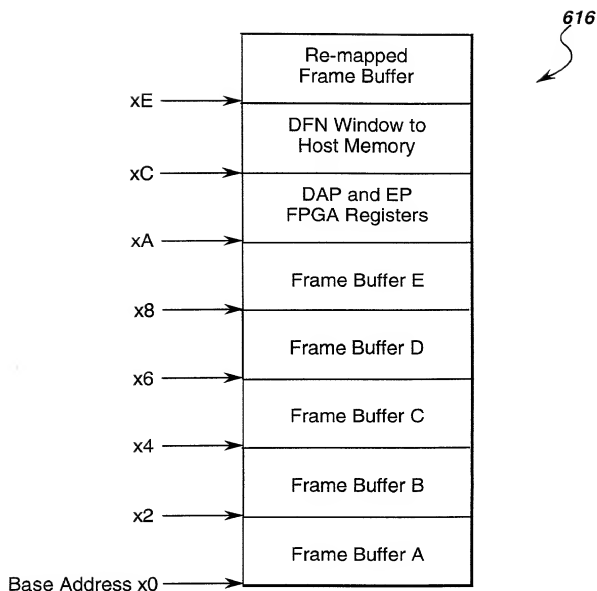


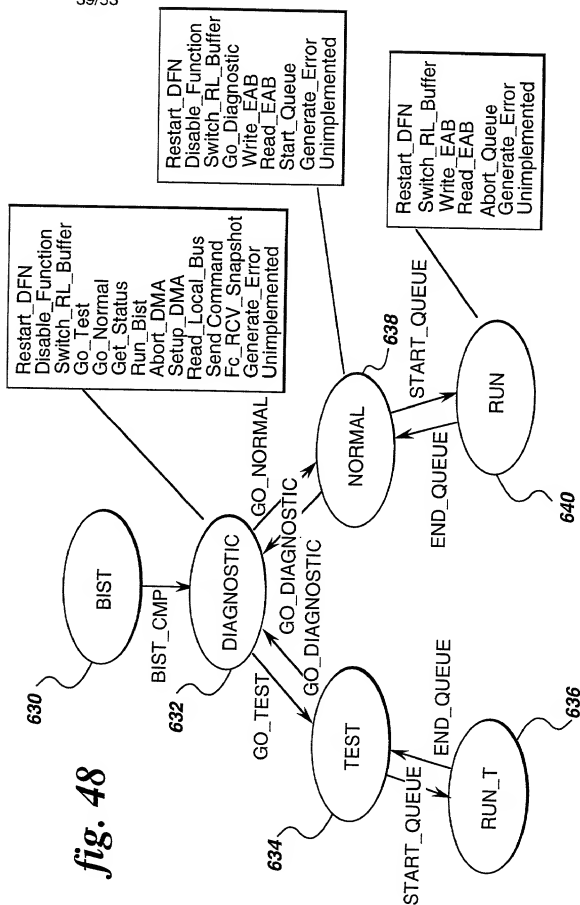
fig. 45





Mapping of 16 MByte PCI Address Space

fig. 47



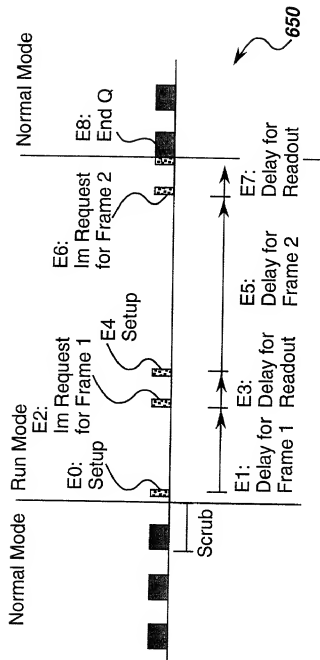


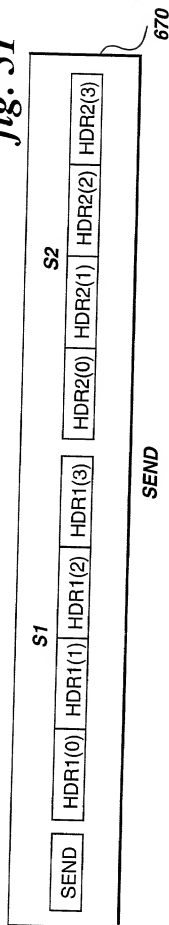
fig. 49

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Event Mnemonic	Event (showing size of arguments)	Op Code (hex)	Data (bytes)	Total (bytes)
Endq	Endq	14	0	1
Delay (T)	Delay (0xff ff ff ff)	10	4	5
Send (command, value)	Send (0xff ff ff ff, 0xff ff ff ff)	04	8	9
LoopKN (K, N)	LoopKN (0xff ff, 0xff)	0C	3	4
LoopKF (K, F)	LoopKF (0xff ff, 0xff ff ff)	0D	5	6
Wait (F)	Wait (0xff ff, ff)	09	3	4
Flag (F)	Flag (0xff ff, ff)	08	3	4

fig. 50

fig. 51



Error Mnemonic	Description of Error
FC_TIMEOUT	Timeout Expired With No ACK Detected
FC_BAD_ACK	ACK Did Not Match Transmitted Command
FC_EXTRA_ACK	Unexpected ACK Received
FC_EXTRA_CMD	New Send Event While Waiting for ACK From Previous Send
SIG_DET_N	No Input Signal Power on Fibre Channel (Cable Disconnected?)
RX_ERROR	Fibre Channel Receiver Detected Bad Data (Defective Chipset?)
WRDSYN_CN	Fibre Channel Data Link Unsynchronized
CRXS(1)	Bad Received CRC Detected (Fiber-optic Cable Problem?)
CRXS(3) & CRXS(2)	Bad Order in Link State Machine (Defective Chipset?)

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fig. 52

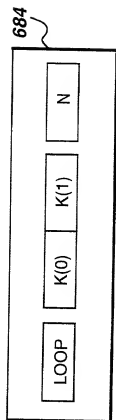
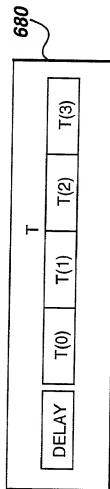


fig. 53

fig. 54

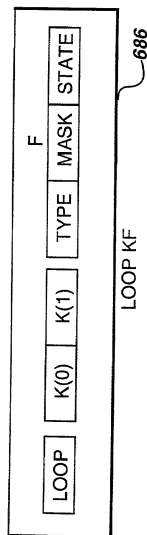


fig. 55

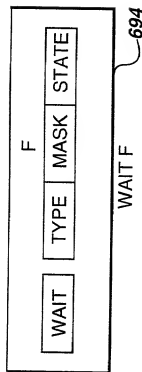


fig. 56

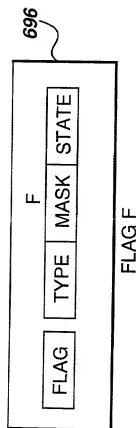


fig. 57

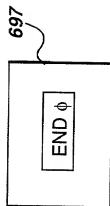


fig. 58

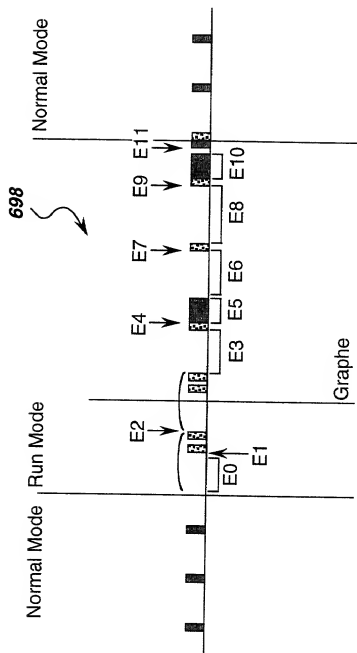
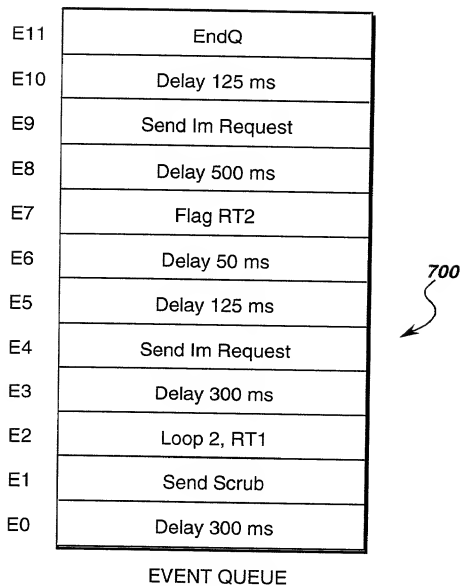


fig. 59

*fig. 60*

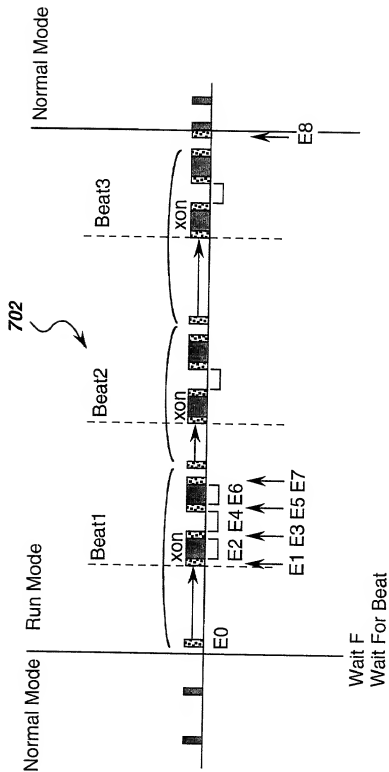
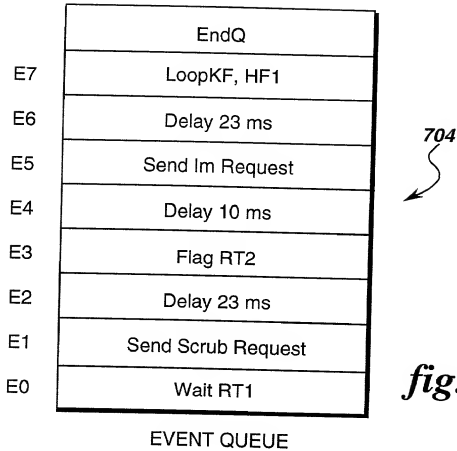
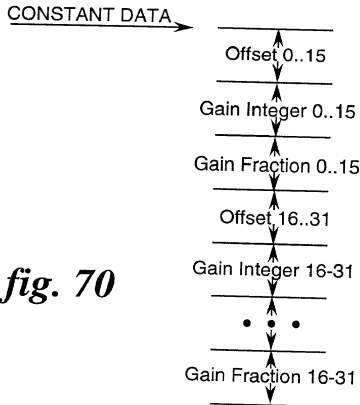


fig. 61

*fig. 62**fig. 70*




```

sequence_begin ( );
# define qv defaults:
%qv1 ='(delay_qv' => 5000);
# call frame with qv's
frame_type1(NULL, \%qv1, 1);
sequence_end ( );

```

fig. 64

```

sub frame
{
  $QVf = 'frame' ;
  %qv = ('delay_qv' => [10000]);
  %qp = ( );
  compile_init (@_, \%qp, \%qv, $QVf);
  Delay('Delay_qv1');
  compile_finit ( );
}

```

fig. 65

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```

pDFN->DFNChangeQueueVariable
(
  (char *) SymName,
  (char *) sndBuf,
  BufSize
  (ULONG *) & Debug
);

```

fig. 66

```

// variable name
// new value
// num bytes to write
// developer info

```

```
// load and run the event sequence
pDFNBeginSequenceNoMappingNoLog
    (snum,"d:\\HF.bin" );
// assign data to be passed
sndBuf = 25000;
// change the queue variable
pDFN->DFNChange QueueVariable
(
    (char *) SymName,           // variable name
    (char *) sndBuf,           // new value
    (ULONG ) sizeof sndBuf     // num bytes to write
    (ULONG *) & debug          // developer info
);
```

```
sub frame_type1
{
    $HFrm = 'frame_type1';
    %qv = ('delay_qv' => [20000]);
    %qp = ( );
    $image_cmd = [0x800000,0x0];
    compile_init (@_,\%qp, \%qv, $HFrm);
    Send ( $image_cmd);
    Delay('delay_qv');
    LoopKF(2, 0xAAAAF01);
    compile_finit( );
}
```

fig. 67 *fig. 68*

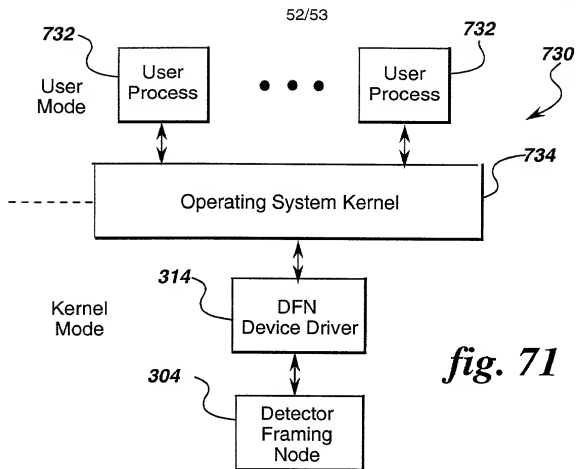


fig. 71

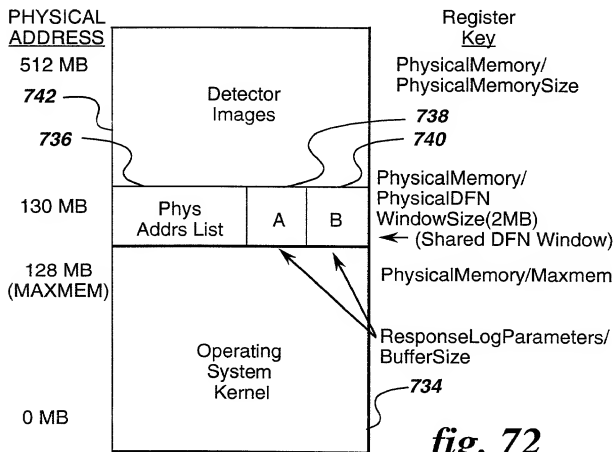
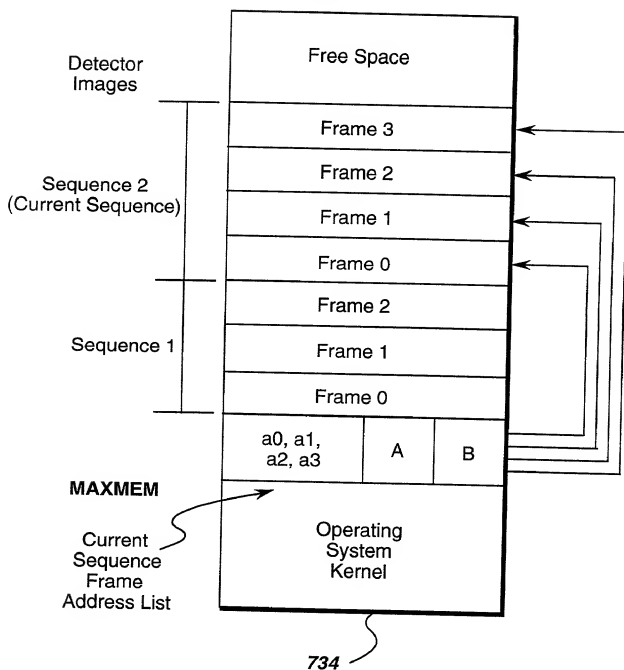


fig. 72

*fig. 73*